

FortiAuthenticator Agent for Microsoft IIS/OWA - Install Guide

REVISION 1

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06/10/2015

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Change Log

Date	Change Description
2015-01-19	Initial release.

Introduction

This document introduces FortiAuthenticator Agent for Microsoft IIS, a plugin for the Microsoft IIS web server which allows a FortiAuthenticator OTP requested during web server authentication, including during Microsoft Outlook Web Access authentication.

This document also covers the installation and configuration of the FortiAuthenticator Agent on supported Microsoft Windows Server, IIS, and Exchange systems, and configuration of the FortiAuthenticator.

FortiAuthenticator Agent for Microsoft Windows

Once installed, the modified login process requires a Username and OTP (One Time Passcode) to be validated via the FortiAuthenticator, and the Username and Password validated as normal via AD (Active Directory).

FortiAuthenticator Agent validates the OTP prior to the AD password which prevents any possibility of brute forcing the password.



Due to the fact that the username, password, and token need to be simultaneously put into the login prompts, two-factor authentication methods that require a trigger to obtain the token (email and SMS) are not supported. However, other methods including FortiToken and FortiToken Mobile are supported.

Supported Software Versions

This install guide is based on FortiAuthenticator Agent for Microsoft IIS v.1.0.0 which has been tested with:

Operating Systems

- Microsoft Windows Server 2012 R2
- Microsoft Windows Server 2008 R2

Applications

- Microsoft IIS 7.0 and later
- Microsoft Exchange Server 2010 & 2013

System Requirements

FortiAuthenticator Agent for Microsoft IIS v.1.0.0 has the following system requirements:

- 20 MB of free disk space
- TCP/IP networking
- Microsoft .NET Framework 4 Client Profile or later
- Visual Studio C++ 2012 redistributable packages



FortiAuthenticator Agent for Microsoft IIS v.1.0.0 currently does not test for the IIS/Exchange presence or for the appropriate .NET runtime versions. This will be resolved in a future revision.

Required Ports

The following ports must be allowed between the Client operating system and the specified system:

Port	Destination	Description
TCP/443	FortiAuthenticator	Used by the FortiAuthenticator Agent for Microsoft Windows to validate the entered Two-Factor Authentication Token.
TCP/389	Windows Domain Controller	Indirectly used by the FortiAuthenticator Agent for Microsoft Windows to verify group membership of the user in order to identify if Two-Factor Authentication should be applied.

Third Party Trademark Notice

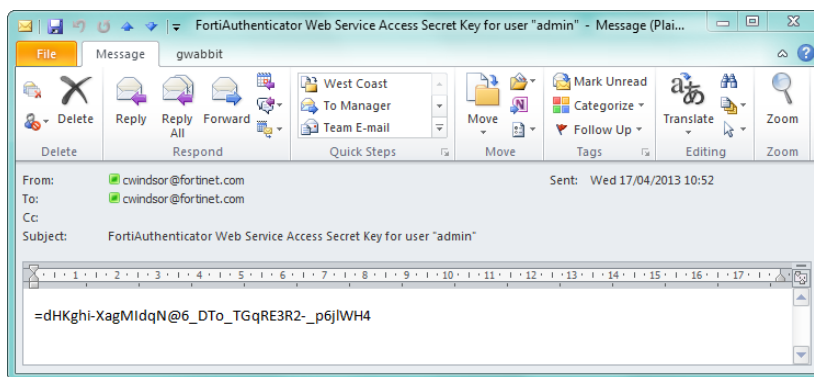
Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

FortiAuthenticator Configuration

To enhance the Microsoft Windows operating system login with the use of a OTP (i.e. the two-factor authentication token), FortiAuthenticator Agent for IIS (including OWA) uses the FortiAuthenticator REST API. To use the REST API, a key is required which must be generated before installing the desktop agent software.

Generating an API key requires a working email configuration. Before proceeding, configure and test an email server in *System > Messages > SMTP Servers* and set it as active in *System > Messages > Email Services*.

1. Log into the FortiAuthenticator.
2. Edit the admin user in *Authentication > Local User Management > Local Users* and enable *Web Service Access* in the *Role* section. Click *OK* and an email containing the API Key for that user will be sent.



The required users should be imported via LDAP and assigned a FortiToken with which to authenticate before proceeding.

Agent Installation Procedure



Before proceeding, please backup your system and all configurations files.

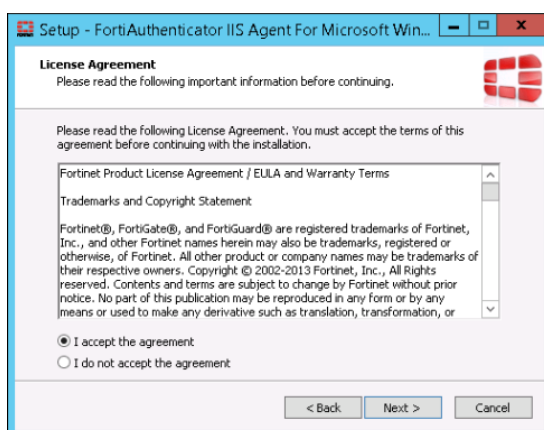
FortiAuthenticator Agent for Microsoft IIS is designed for installation onto a Domain connected system. On the IIS/OWA system you wish to perform two-factor enhanced login:

1. Ensure your system meets the pre-requisites as defined in System Requirements.
2. Run the FortiAuthenticator Agent install file as a Domain Administrator (e.g. either as a logged in Domain Administrator or by right-clicking and select *Run as Administrator*. Note that the Agent can also be installed via GPO, however that process is not covered in this document.

FortiAuthenticator Agent for Microsoft Windows will now begin to install.



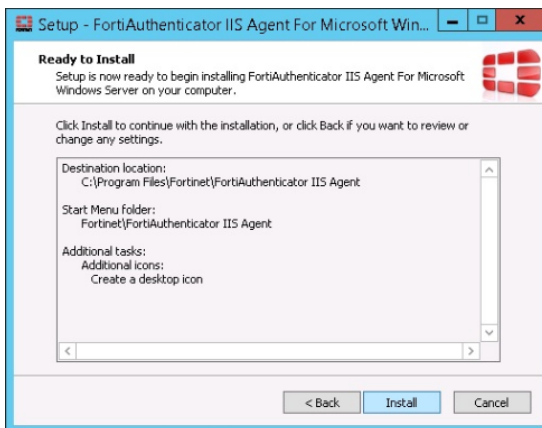
3. Select *Next* to continue with the installation.



4. Read and accept the *License Agreement*, and click *Next*.



5. Select *Create a desktop icon* if you wish to access the Agent via the desktop.



6. Click *Install* to begin the installation process.

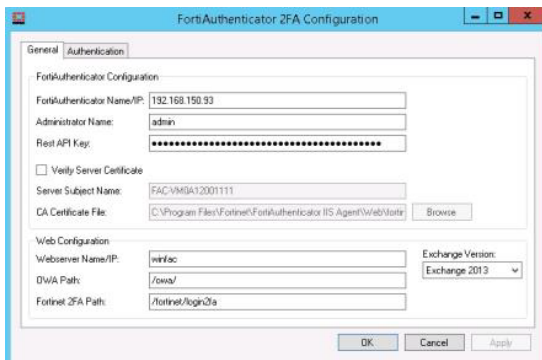


Once the installation has completed, tick *Review 2FA Configuration* and click *Finish*.

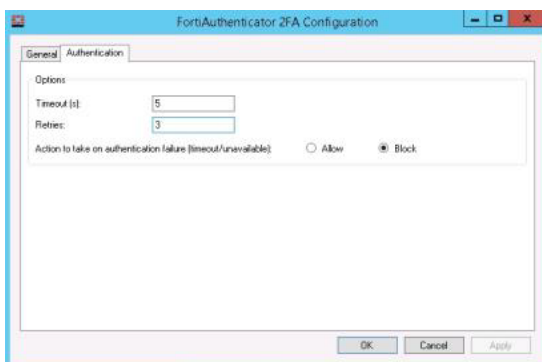
The configuration dialogue should open. If it does not, or if you wish to reconfigure your agent, run the FortiAuthenticator Agent for Microsoft IIS configuration utility to configure the specifics of your setup.

Agent Configuration

1. When the FortiAuthenticator Agent for Microsoft IIS configuration utility opens, click the *General* tab.



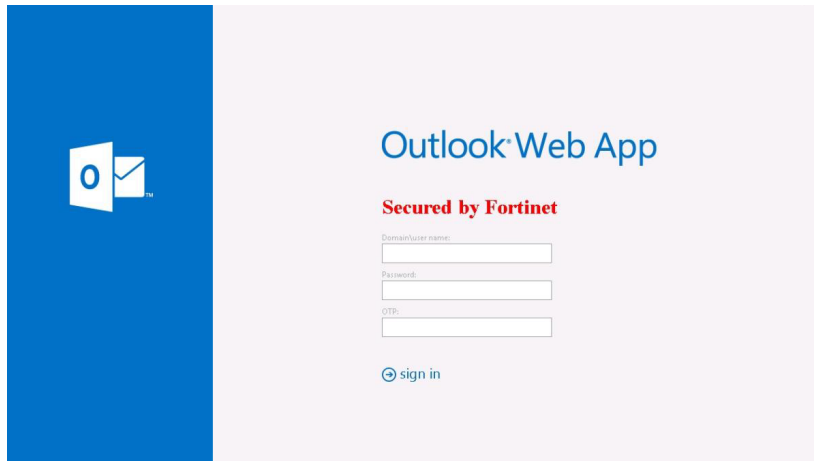
2. In the *FortiAuthenticator 2FA Configuration* screen, configure the IP address, username, and API key obtained in *FortiAuthenticator Configuration*.
3. In the Web Configuration section, configure the specifics of your Web Server and OWA installation.



4. Select the *Authentication* tab and configure the required timeout and retry parameters, as well as the action to take should the FortiAuthenticator become unavailable (*Allow* or *Block*). Click *OK* to save.

User Two-Factor Login

The default installation creates a modified version of the OWA login page as shown below which is enhanced with an OTP login dialogue. Users should enter their username and password as usual but add the OTP code from their FortiToken or FortiToken Mobile as the second factor.



This template can be modified by editing the webpage CSS/JS if required.



While this plugin protects Microsoft IIS with Outlook Web Access, two-factor authentication will not be applied to other protocols such as POP3/IMAP traffic.

Appendix A — Licenses

FortiAuthenticator utilizes elements of Open Source technology including:

pGina - <http://pgina.org/>

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High Performance Network Security



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